

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>576P084</b>
INTERNATIONAL APPLICATION NO. <b>PCT/JP2004/010015</b>	INTERNATIONAL FILING DATE <b>14 July 2004</b>	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/564644</b>
PRIORITY DATE CLAIMED <b>16 July 2003</b>		
TITLE OF INVENTION <b>DISAZO COMPOUND AND INK COMPOSITION USING THE SAME</b>		
APPLICANT(S) FOR DO/EO/US <b>Yasuo Shirasaki, Katsunori Fujii and Kazunobu Nagasaki</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ul> </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: <b>1. Copy of the International Search Report. 2. Copy of Form PCT/IB/304.</b></p>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAP20 REC'D PTO 13 JAN 2006

PTO-1390 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>14-0930</b>		INTERNATIONAL APPLICATION NO. PCT/JP2004/010015		ATTORNEY'S DOCKET NUMBER <b>576P084</b>	
The following fees have been submitted				CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee.....				\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... All other situations.....				\$ 200.00	
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... International Search Report prepared and provided to the Office..... All other situations.....				\$ 400.00	
<b>TOTAL OF 21, 22 and 23 =</b>				\$ 900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
- 100 =	/50 =			x \$250	\$ --
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$ --	
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	\$
Total claims		13 - 20 =	0	x \$ 50	\$ 0
Independent claims		2 - 3 =	0	x \$200	\$ 0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360	\$ 360.00
				<b>TOTAL OF ABOVE CALCULATIONS =</b>	\$ 1,260.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
				<b>SUBTOTAL =</b>	\$ 1,260.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ --	
				<b>TOTAL NATIONAL FEE =</b>	\$ 1,260.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$40.00	
				<b>TOTAL FEES ENCLOSED =</b>	\$ 1,300.00
				Amount to be refunded:	\$
				Amount to be charged:	\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1260.00</u> &amp; <u>40.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>14-0930</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Nields & Lemack					
176 E. Main Street - Suite 7					
Westboro, MA 01581					
 SIGNATURE Kevin S. Lemack NAME					
32,579 REGISTRATION NUMBER					

10/564644

IAP20 Rec'd. 13 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
Type of paper : **Transmittal Letter to the United States Designated/Elected Office  
(DO/EO/US) Concerning A Submission Under 35 U.S.C. 371**

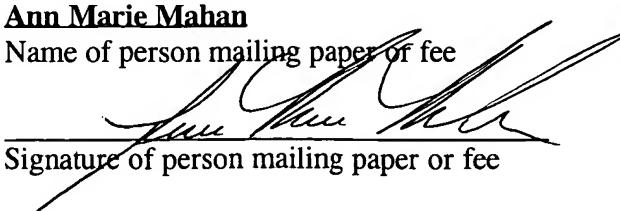
"EXPRESS MAIL" MAILING LABEL NO ED 596748683US

DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

10/564644

PCT/2004/010015 13 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
  
Type of paper : Copy of the Notification Concerning Submission or Transmittal of Priority Document (Form PCT/IB/304)

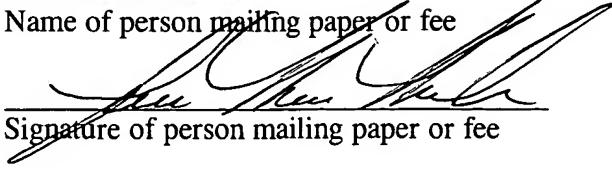
"EXPRESS MAIL" MAILING LABEL NO ED 596748683US

DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

10/564644

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

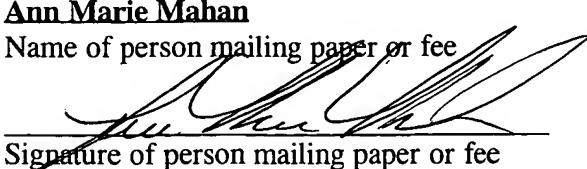
Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
  
Type of paper : **Copy of the International Search Report**

**"EXPRESS MAIL" MAILING LABEL NO ED 596748683US**  
**DATE OF DEPOSIT: January 13, 2006**

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, **Mail Stop: PCT**, Alexandria, VA 22313-1450.

**Ann Marie Mahan**

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

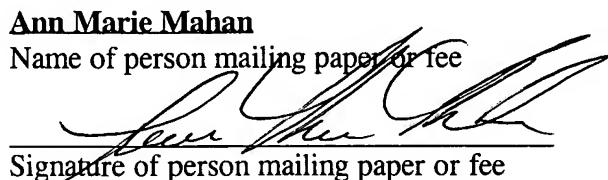
101564644  
IAP20 Rec'd PCT/PTO 13 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
  
Type of paper : Assignment

"EXPRESS MAIL" MAILING LABEL NO ED 596748683US  
DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, **Mail Stop: PCT**, Alexandria, VA 22313-1450.

**Ann Marie Mahan**  
Name of person mailing paper or fee  
  
Signature of person mailing paper or fee

10/564644

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
13 JAN 2006  
PCT/JP2004/010015

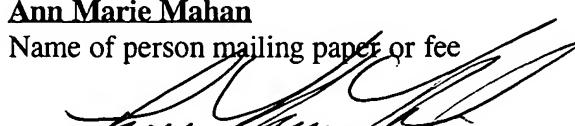
Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
  
Type of paper : Executed Declaration

"EXPRESS MAIL" MAILING LABEL NO ED 596748683US  
DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

10/564644

IAP20 Rec'd PCT/PTO 13 JAN 2006

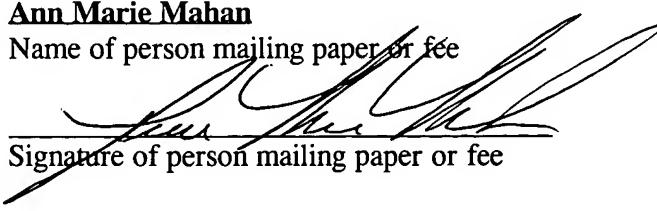
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
Type of paper : Recording Fee

"EXPRESS MAIL" MAILING LABEL NO ED 596748683US  
DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

**Ann Marie Mahan**  
Name of person mailing paper or fee

  
Signature of person mailing paper or fee

10/564644

10/564644  
AP20 Rec'd PCT/PTO 13 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

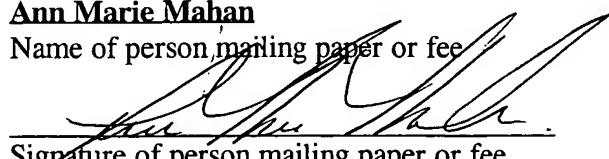
Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
Type of paper : Letter

"EXPRESS MAIL" MAILING LABEL NO ED 596748683US  
DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

  
Signature of person mailing paper or fee

10/564644

Attorney Docket No. 576P084  
IAP20 REC'D. 13 JAN 2006  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Yasuo Shirasaki, Katsunori Fujii and Kazunobu Nagasaki**

For: **DISAZO COMPOUND AND INK COMPOSITION USING THE SAME**

**Mail Stop: PCT**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

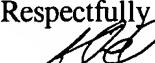
**LETTER**

The above-identified applicants enclose for filing the national phase of a PCT patent application (PCT/JP2004/010015) entitled "**DISAZO COMPOUND AND INK COMPOSITION USING THE SAME**". Said attached PCT patent application includes (1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (2-Pages); (2) Translation of the International Application into English: 31-Page Specification (including 2-Pages of Claims (12) and 1-Page Abstract); (3) Executed Declaration (3-Pages); (4) Check in the amount of \$1,260.00 in payment of the Filing Fee; (5) Copy of the International Search Report (3-pages); (6) Recordation Form Cover Sheet (1-Page), Assignment (2-Pages); (7) Check in the amount of \$40.00 in payment of the Recording Fee; and (8) Copy of the Notice Informing the Applicant of the Communication of the International Application to the Designated Offices (Form PCT/IB/308)(1-Page).

All correspondence concerning this application should be mailed to: **CUSTOMER NO: 42754**

**Kevin S. Lemack**  
Nields & Lemack  
176 E. Main Street - Suite 7  
Westboro, Massachusetts 01581

Respectfully submitted,

  
**Kevin S. Lemack**  
Attorney for Applicant  
Registration No. 32,579

Date: January 13, 2006

**EXPRESS MAIL NO: ED 596748683 US**

10/564644  
IAP20 Rec'd 13 JAN 2006

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
Type of paper : Filing Fee

"EXPRESS MAIL" MAILING LABEL NO ED 596748683US  
DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

## **Ann Marie Mahan**

Name of person mailing paper or fee

Signature of person mailing paper or fee

10/564644

13 JAN 2006  
IAP20 Rec'd PCT/PTO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yasuo Shirasaki et al.  
Serial No. : Not yet assigned (PCT/JP2004/010015)  
Filed : Herewith by Express Mail (14 July 2004)  
For : DISAZO COMPOUND AND INK COMPOSITION USING THE SAME  
Examiner : Not yet assigned  
Art Unit : Not yet assigned  
Attorney  
Docket No. : 576P084  
Type of paper : Translation of the International Application into English

"EXPRESS MAIL" MAILING LABEL NO ED 596748683US  
DATE OF DEPOSIT: January 13, 2006

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

Ann Marie Mahan

Name of person mailing paper or fee

Signature of person mailing paper or fee

